PATENT APPLICATION NO.: 09 ATTORNEY DOCKET: 72167.000594

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

cation Number

09/957,465

Confirmation No.:

2588

**Applicant** 

Ty BORDNER et al.

Filed

September 21, 2001

Title

SYSTEM AND METHODS FOR IMPROVED LINGUISTIC

PATTERN MATCHING

TC/Art Unit

2161

Examiner:

K. Padmanabhan

Docket No.

72167.000594

Customer No.

21967

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#### **Hunton & Williams LLP**

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TC/Art Unit

: 2161

Examiner:

: Kavita Padmanabhan

Docket No.

72167.000594

Customer No.

21967

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants submit attached Form PTO-SB/08A (modified) for consideration and request the references cited therein be made of record by the U.S. Patent and Trademark Office in the above-captioned application.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of cited U.S. patents and/or U.S. patent application publications under 35 U.S.C. 371, are not being provided.

Applicants respectfully point out that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made by Applicants.

For the convenience of the Examiner in considering the cited references, a copy of each of the cited references is enclosed with this communication. In considering the cited references, it may be noted by the Examiner that certain of the references may contain markings, underlinings, and/or other notations. These markings, underlinings, and/or other notations are not to be construed as drawing the Examiner's attention either to selected parts or away from other

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parts of the cited references. Any such markings were either present on the copies of the cited references obtained by the associated individuals, or were made thereon during the study of the

references by the associated individuals.

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

This Information Disclosure Statement is being submitted after the mailing of a non-final Office Action, but is believed to be prior to a final Office Action or a Notice of Allowance. Pursuant to 37 C.F.R. § 1.97(c)(2), a check in the amount of \$180.00 as set forth in § 1.17(p) is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any difference to the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

**HUNTON & WILLIAMS LLP** 

Dated: June 27, 2006

By:

Registration No. 57,617

Hunton & Williams LLP **Intellectual Property Department** 1900 K Street, N.W. **Suite 1200** Washington, DC 20006 (202) 955-1500 (telephone) (202) 778-2201 (facsimile) HLL/asc



Substitute for form 1449A/PTO

1 of 7

Sheet

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	09/957,465
Filing Date	September 21, 2001
First Named Inventor	Ty BORDNER
Art Unit	2161
Examiner Name	Kavita Padmanabhan
Attorney Docket Number	72167.000594

		ı	J.S. PATENT DO	CUMENTS	
*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US 2002/0007287	01-17-2002	Straube et al.	
	2.	US 2002/0029228	03-07-2002	Rodriguez, et al.	
	3.	US 2002/0038226	03-28-2002	Tyus	
	4.	US 2002/0038320	03-28-2002	Brook	
	5.	US 2002/0049666	04-25-2002	Reuter et al.	
	6.	US 2002/0065695	05-30-2002	Francoeur et al.	
	7.	US 2002/0083034	06-27-2002	Orbanes et al.	
	8.	US 2002/0091702	07-11-2002	Mullins	
	9.	US 2002/0116205	08-22-2002	Ankireddipally et al.	
	10.	US 2002/0143774	10-03-2002	Vandersluis	
	11.	US 2002/0144101	10-03-2002	Wang et al.	
	12.	US 2002/0178439	11-28-2002	Rich et al.	
	13.	US 2002/0188765	12-12-2002	Fong et al.	
	14.	US 2003/0014421	01-16-2003	Jung	
	15.	US 2003/0018666	01-23-2003	Chen et al.	
	16.	US 2003/0027561	02-06-2003	lyer	
	17.	US 2003/0046313	03-06-2003	Leung et al.	
	18.	US 2003/0050931	03-13-2003	Harman et al.	
	19.	US 2003/0069975	04-10-2003	Abjanic et al.	
	20.	US 2003/0070158	04-10-2003	Lucas et al.	
	21.	US 2003/0088593	05-08-2003	Stickler	
	22.	US 2003/0126151	07-03-2003	Jung	
	23.	US 2003/0131007	07-10-2003	Schirmer et al.	

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Substitute	for form 1449A/PTO	Application Number	09/957,465
INIE	ORMATION DISCLOSURE	Filing Date	September 21, 2001
	ATEMENT BY APPLICANT	First Named Inventor	Ty BORDNER
	A I EIVIEIN I DT APPLICAIN I (use as many sheets as necessary)	Art Unit	2161
	(use as many sheets as necessary)	Examiner Name	Kavita Padmanabhan
Sheet	2 of 7	Attorney Docket Number	72167.000594

			U.S. PATENT DO	CUMENTS	
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	24.	US 2003/0140045	07-24-2003	Heninger et al.	
	25.	US 2003/0140308	07-24-2003	Murthy et al.	
	26.	US 2003/0145047	07-31-2003	Upton	
	27.	US 2003/0163603	08-28-2003	Fry et al.	
	28.	US 2003/0167266	09-04-2003	Saldanha et al.	
	29.	US 2003/0167445	09-04-2003	Su et al.	
	30.	US 2003/0177118	09-18-2003	Moon, et al.	
·	31.	US 2003/0177341	09-18-2003	Devillers	
	32.	US 2003/0191849	10-09-2003	Leong et al.	
	33.	US 2003/0217033	11-20-2003	Sandler et al.	
	34.	US 2003/0217083	11-20-2003	Taylor	
	35.	US 2004/0122872	06-24-2004	Pandya et al.	
	36.	US 2005/0027658	02-03-2005	Moore et al.	
	37.	US 2005/0060345	03-17-2005	Doddington	
	38.	US 2005/0065987	03-24-2005	Telknowski et al.	
	39.	US 3872448	03-18-1975	Mitchell Jr.	
	40.	US 5159687	10-27-1992	Richburg	
	41.	US 5168444	12-01-1992	Cukor et al.	
	42.	US 5278982	01-11-1994	Daniels et al.	
	43.	US 5313616	05-17-1994	Cline et al.	
	44.	US 5347518	09-13-1994	Lee	
	45.	US 5455946	10-03-1995	Mohan et al.	
	46.	US 5630173	05-13-1997	Oprescu	
	47.	US 5701471	12-23-1997	Subramanyam	

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314	AI EIVIEIN I DI APPLICAIN I (use as many sheets as necessary)	Art Unit	2161
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Sheet	3 of 7	Attorney Docket Number	72167.000594

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	48.	US 5748878	05-05-1998	Rees et al.	
	49.	US 5752034	05-12-1998	Srivastava	
	50.	US 5758061	05-26-1998	Plum	
	51.	US 5764972	06-09-1998	Crouse et al.	
	52.	US 5774553	06-30-1998	Rosen	
	53.	US 5784557	07-21-1998	Oprescu	
	54.	US 5787402	07-28-1998	Potter et al.	
	55.	US 5828883	10-27-1998	Hall	
	56.	US 5832523	11-03-1998	Kanai et al.	
	57.	US 5835770	11-10-1998	Shum et al.	
	58.	US 5845293	12-01-1998	Veghte et al.	
	59.	US 5872976	02-16-1999	Yee et al.	
	60.	US 5907846	05-25-1999	Berner et al.	
	61.	US 5920719	07-06-1999	Sutton et al.	
	62.	US 5978477	11-02-1999	Hull et al.	
	63.	US 6009405	12-28-1999	Leymann et al.	
	64.	US 6014671	01-11-2000	Castelli et al.	
	65.	US 6026237	02-15-2000	Berry et al.	
	66.	US 6029002	02-22-2000	Afifi et al.	
	67.	US 6058393	05-02-2000	Meier et al.	
	68.	US 6065009	05-16-2000	Leymann et al.	
	69.	US 6081808	06-27-2000	Blackman et al.	
	70.	US 6108698	08-22-2000	Tenev et al.	
	71.	US 6125390	09-26-2000	Touboul	

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Sheet	4 of 7	Attorney Docket Number	72167.000594

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	72.	US 6138112	10-24-2000	Slutz	Tielevant Tigures Appeal
	73.	US 6145121	11-07-2000		
	74.			Levy et al.	
		US 6163776	12-19-2000	Periwal	
-	75.	US 6188400	02-13-2001	House et al.	
	76.	US 6226652	05-01-2001	Percival et al.	
	77.	US 6237143	05-22-2001	Fontana et al.	
	78.	US 6243862	06-05-2001	Lebow	
	79.	US 6256635	07-03-2001	Arrouye et al.	
	80.	US 6263121	07-17-2001	Melen et al.	
	81.	US 6269479	07-31-2001	Puram	
	82.	US 6279008	08-21-2001	Tung Ng et al.	
	83.	US 6301701	10-09-2001	Walker et al.	
	84.	US 6311320	10-30-2001	Jibbe	
	85.	US 6311327	10-30-2001	O'Brien et al.	
	86.	US 6336122	01-01-2002	Lee et al.	
_	87.	US 6356920	03-12-2002	Vanderslius	
	88.	US 6381609	04-30-2002	Breitbart et al.	
	89.	US 6385618	05-07-2002	Ng et al.	
	90.	US 6397221	05-28-2002	Greef et al.	
	91.	US 6405209	06-11-2002	Obendorf	
	92.	US 6411957	06-25-2002	Dijkstra	
	93.	US 6418446	07-09-2002	Lection et al.	
	94.	US 6418448	07-09-2002	Sarkar	
	95.	US 6418451	07-09-2002	Maimone	
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	96.	US 6449623	09-10-2002	Bohannon et al.	
	97.	US 6453310	09-17-2002	Zander	
	98.	US 6456995	09-24-2002	Salo et al.	
	99.	US 6467052	10-15-2002	· Kaler et al.	
٠	100.	US 6477540	11-05-2002	Singh et al.	
	101.	US 6490581	12-03-2002	Neshatfar et al.	
	102.	US 6502095	12-31-2002	Breitbart et al.	
	103.	US 6502104	12-31-2002	Fung et al.	
	104.	US 6532467	03-11-2003	Brocklebank et al.	
	105.	US 6535894	03-18-2003	Schmidt et al.	
	106.	US 6539337	03-25-2003	Provan et al.	
	107.	US 6539383	03-25-2003	Charlet et al.	
	108.	US 6539397	03-25-2003	Doan et al.	
	109.	US 6539398	03-25-2003	Hannan et al.	
	110.	US 6557039	04-29-2003	Leong et al.	
	111.	US 6571249	05-27-2003	Garrecht et al.	
	112.	US 6574640	06-03-2003	Stahl	
	113.	US 6578129	06-10-2003	da Silva Junior et al.	
	114.	US 6591260	07-08-2003	Schwarzhoff et al.	
	115.	US 6601075	07-29-2003	Huang et al.	
	116.	US 6651076	11-18-2003	Asano	
	117.	US 6665086	12-16-2003	Hull et al.	
	118.	US 6678705	01-13-2004	Berchtold et al.	
	119.	US 6681380	01-20-2004	Britton et al.	

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	120.	US 6691139	02-10-2004	Ganesh et al.			
	121.	US 6697835	02-24-2004	Hanson et al.			
	122.	US 6701514	03-02-2004	Haswell et al.			
	123.	US 6711594	03-23-2004	Yano et al.			
	124.	US 6714219	03-30-2004	Lindhorst et al.			

				FOREIGN PA	TENT DOCUMENT	S	
			REIGN PATENT DOCUMENT				
*Examiner	Cite No.		Publication Date  MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code Number- Kind Code (if known)				YES/NO	
	125.	wo	02/46980	6/13/2002	Lichtenberg et al.		
	126.	wo	95/03586	2/2/1995	Henninger		
	127.	wo	96/34350	10/31/1996	Althoff		

	OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS				
*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue			
		number(s), publisher, city and/or country where published	YES/NO		
	128.	DUGGAN, 2.40 General - Reviews and Abstracts, SPI Database of Software Technologies, pg. 1-5, 02/01/1974			
	129.	HELLERSTEIN, A Generalized Search Tree for Database Systems, 01/19/1996			
	130.	DENG ET AL., A Probabilistic Approach to fault Diagnosis in Linear Lighwaves Network, Department of Electrical Engineering, 05/1992, pp. 1-122			

	010111
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		Examiner Name	Kavita Padmanabhan
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THICK OF THE PARTY	,	number(s), publisher, city and/or country where published	YES/NO			
	131.	SAMMET, Beginning of 4.6 Software Evaluation, Tests and Measurements and RMF I/O Time Validation, Association of Computing Machinery, pg. 519				
	132.	XU, ERDraw: An XML-based ER-diagram Drawing and Translation Tool				
	133.	VANBOMMEL, Genetic Algorithms for Optimal Logical Database Design Information and Software Technology, Vol. 36, No. 12, pg. 725-732, 1994				
	134.	STROM ET AL., Gryphon: An Information Flow Based Approach to Message Brokering, International Symposium on software Reliability, 06/20/2005				
	135.	HILBERT, Hilbert, et al., An Approach To Large Scale Collection Of Application Usage Data Over the Internet, Software Engineering 1998, Proceedings of the 1998 International Conference, Abstract, 04/1998				
	136.	CHEN, Improving Index Performance through Prefetching School of Computer Science Carnegie Mellon University, December 2000				
	137.	VAN STEEN, Model for Worldwide Tracking of Distributed Objects, VRIJE Universiteit, Amsterdam				
	138.	Quantitative Monitoring Of Software Development by Time-Based and Intercheckpoint Monitoring, Software Engineering Journal, Vol. 5, Iss. 1, pg. 43-49, Abstract, Jan-90				
	139.	MOSER, Transactions in a Distributed Object Environment, Department of Electrical and Computer Engineering, 06/19/2005				
	140.	RAMAKRISHNAN, Tree-Structured Indexes Module 2, Lectures 3 and 4				

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